

FIGURE 1A**CHIR 12.12 light chain:****leader:****MALPAQLLGLMLWVSGSSQ****variable:****DIVMTQSPLSLTVPGEPAISICRSSQSLLYSNGYNYLDWYLQKPGQSPQVLISLGS
NRASGVDPDRFSGSGSGTDFTLKISRVEAEDVGVYYCMQARQTFPTFGPGTKVDIR****constant:****RTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVT
EQDSKIDSTYLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC****FIGURE 1B****CHIR-12.12 heavy chain:****leader:****MEFGLSWVFLVAILRGVQC****variable:****QVQLVESGGGVVQPGRSLRLSCAASGFTTFSSYGMHWVRQAPGKGLEWVAVISYEESN
RYHADSVKGRFTISRDN SKITLYLQMNSLRTEDTAVYYCARDGGIAAPGPDYWQQGT
LTVSS****constant:****ASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVL
QSSGLYSLSVVTVPSSSLGTQTYICNVNHKPSNTKVDKRVEPKSCDKTHTCPPCPA
PELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAK
TKPREHQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPRE
PQVYTLPPSRREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPFVLDSDG
SFFLYSKLTVDKSRWQQGNVFSCSVNHEALHNHYTQKSLSLSPGK****alternative constant region:****ASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVL
QSSGLYSLSVVTVPSSSLGTQTYICNVNHKPSNTKVDKRVEPKSCDKTHTCPPCPA
PELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAK
TKPREHQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPRE
PQVYTLPPSRREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPFVLDSDG
SFFLYSKLTVDKSRWQQGNVFSCSVNHEALHNHYTQKSLSLSPGK**

FIGURE 2A

DNA sequence of light chain of CHIR-12.12:

[illegible]

FIGURE 2B

DNA sequence of heavy chain of CHIR-12.12 (including introns):

[illegible]

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FIGURE 3A**CHIR-5.9 light chain:****leader:****MALLAQLLGLLMLWVPGSSG****variable:****AIVMTQPPPLSSPVTLGQPPASISCRSSQSLVHSDGNTYLNWLQQRFGQPPRLLIYKFF
RRLSGVPDRFSGSGAGTDFTLKISRVEAEDVGVYYCMQVTFPHTFGQGTRLEIK****constant:****RTVAAPSVFIFFPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVT
EQDSKDSSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC****FIGURE 3B****CHIR-5.9 heavy chain:****leader:****MGSTAILALLLAVLQGVCA****variable:****EVQLVQSGAEVVKPGESLKISCKGSGYSFTSYWIGWVRQMPGKGLEWNGGIIYPGDS
TRYSPSPFQGGVTISADKSISTAYLQWSBLKASDTAMYYCARGTAAGRDIYVYVGM
WGQGTTVTVSS****constant:****ASTKGPSVFPLAPASKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVL
QSSGLYSLSVVTVPSSSLGTQTYICNVNHKPSNTKVDKRVEPKSCDKTHTCPPCPA
PELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAK
TKPREBQYNSTYRVSVLTVHLQDNLNGKEYKCKVSNKALPAPIEKTIISKAKGQPRE
PQVYTLPPSRREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPFVLDSDG
SFFLYSKLTVDKSRWQQGNVFSCSVHREALHNHYTQKSLSLSPGK****alternative constant region:****ASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVL
QSSGLYSLSVVTVPSSSLGTQTYICNVNHKPSNTKVDKRVEPKSCDKTHTCPPCPA
PELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAK
TKPREBQYNSTYRVSVLTVHLQDNLNGKEYKCKVSNKALPAPIEKTIISKAKGQPRE
PQVYTLPPSRREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPFVLDSDG
SFFLYSKLTVDKSRWQQGNVFSCSVHREALHNHYTQKSLSLSPGK**

FIGURE 4A

Coding sequence for short isoform of human CD40:

```

1  atggttggto tgcctotgaa gtgogtooto tggggotgct tgotgacogo tgtocatoa
61  gaaccaccca ctgcatgcag agaaaaacag taccataaa acagtcagtg ctgttoltg
121  tccagccag gacagaaact ggtgagtgac tgcacagagt tcacigaaac ggaalgccil
181  cotlgoggig aaagogaall ootagacaco tggaaogag agacacactg ccacacagao
241  aaatactgag accccaacct agggcttggg gtccagcaga agggcacotc agaaacagac
301  accatctgca cctgtgaaga aggttgccac tglacagtg aggcotgiga gogotgteto
361  otgcaocgcl calgotcycc oggollggg gtcaagoga ttgotacagg ggtttctgat
421  accatctgag agccctgccc agtcggcttc tctccaalg tgcactgc ttcgaaaaa
481  tgtaccctt ggacaaggic cccaggaicg gctgagagoc ctggtggtga tccccatcat
541  otctgggato ctgtttgaa tctcttggg gctggtott atcaaaaagg tggcaagaa
601  gccaaccaat aa

```

FIGURE 4B

Encoded short isoform of human CD40:

```

1  mvrplqcvl wgciltavhp eppiacrokq ylnsqocsl oqpgqklvd ctefteteol
61  pcgeselldt wnrothchqh kyedpnlgir vqkgtseld tctceegwh ciseaoescv
121  lhracspgfg vkqiatgvsd tccpcpvgf fsnvssafek chpwlrspga aespqgdphh
181  lrdpvchplg aglyqkggqe anq

```

FIGURE 4C

Coding sequence for long isoform of human CD40:

```

1  atgggttcgc tgcctctgca gtgcgtccic tggggctgct tgctgaccgc tgtccatcca
61  gaacccacca ctgcatgcag agaaaaaacg tacctaataa aaagtcagtg ctgttclltg
121  tgccagooag gacagaaact ggtgagtgao tgcaagagat taactgaao ggaatgccit
181  ccttgcggtg aaagcgaalt cclagacacc tggaaacagay agacacacly ccaccagcac
241  aaaluolgcg aocccanccet agggottogg gtooagcaga agggocoto agaaacagao
301  accatctgca cctgtgaaga aggetggcac tgtacgagtg aggcclgtga gagclgtgic
361  ctgcaccgct calgtctgcc cggclllygg gtoaagcaga ttgctacagg ggtttctgat
421  aocatotgog agootgcoc agtoggolto lilecualg tgoalclgo lilegnaana
481  tgcacccctt ggacaagctg tgagaccaaa gacciggttg tgcacagyc aggcacaanc
541  aagacigatg tigtclgtgg tcccaggat cggctgagag ccctggtggt gatccccaic
601  alottoggga loclgllyc catoccltg gtgctggtot ttatnaaaa ggtggccaag
661  aagccaacca alaaggcccc ccacccaag caggaacccc aggagatcaa tttcccgac
721  gatcttctg gctccaacac tgctgttcca gtgcaggaga cttacatgg atgccuaccg
781  gtcacccagg aggatggcaa agagaglcgo alcloaglgc agguaganaa glga

```

FIGURE 4D

Encoded long isoform of human CD40:

```

1  mvrllpqlv wcoltavhp epptacrekq ylinsqccsl cpggqklvsd clctetcl
61  pcgesefldt wnrethchqh kyedpnlgf vqkgtiseld tlctceegwh ctscacesv
121  lhrscspgfg vkqiatgvsd ticepcpvf fsvssafek chpwtsctk dlvvqqagtn
181  ktdvvogpqr rralvvipi ifgilfuill vlvtkkvak kptnkaphpk qepqeinfpd
241  dlpgantaap vqetlhgcqp vlqedgkesr isvqerq

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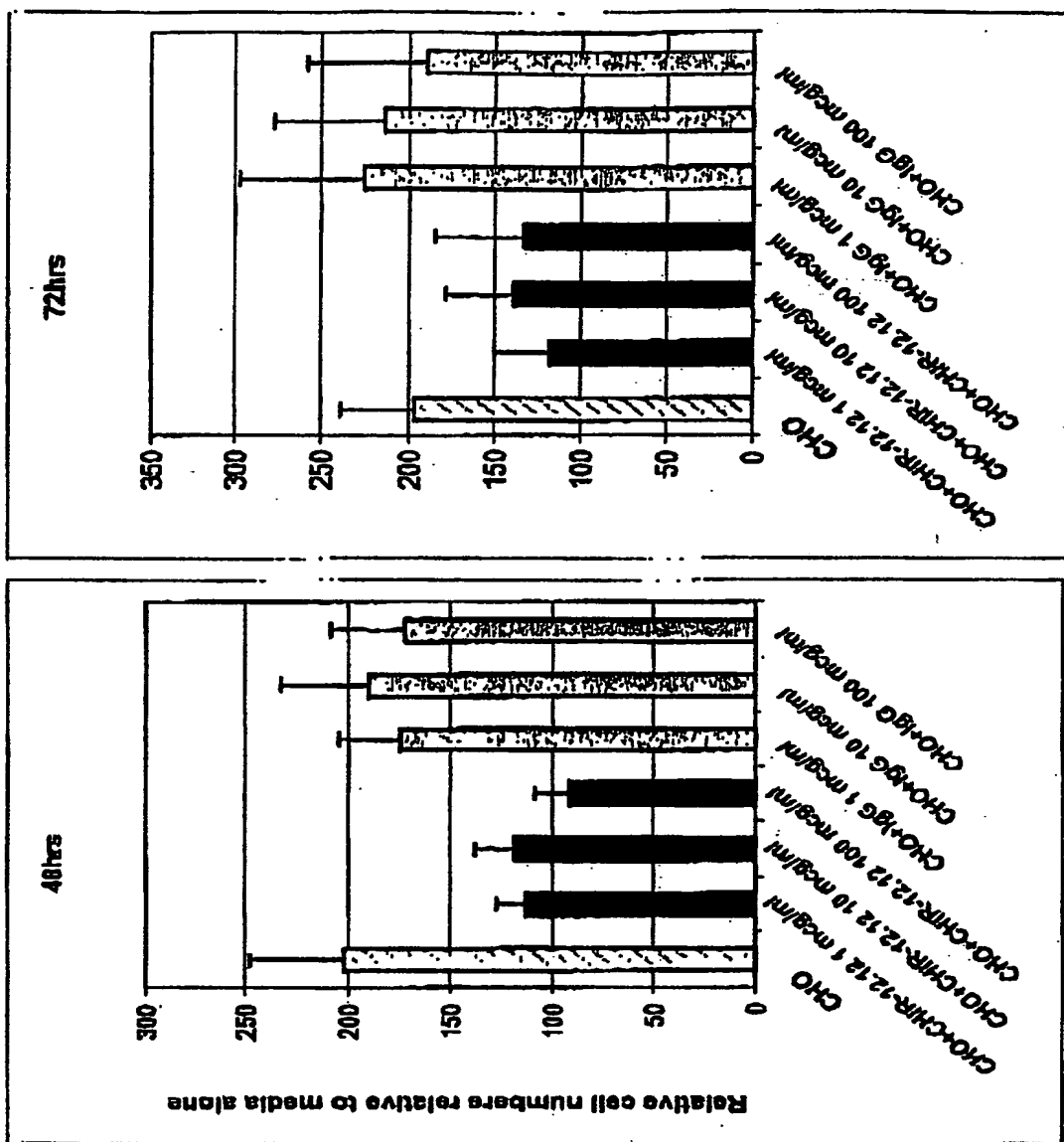


FIGURE 5B

FIGURE 5A

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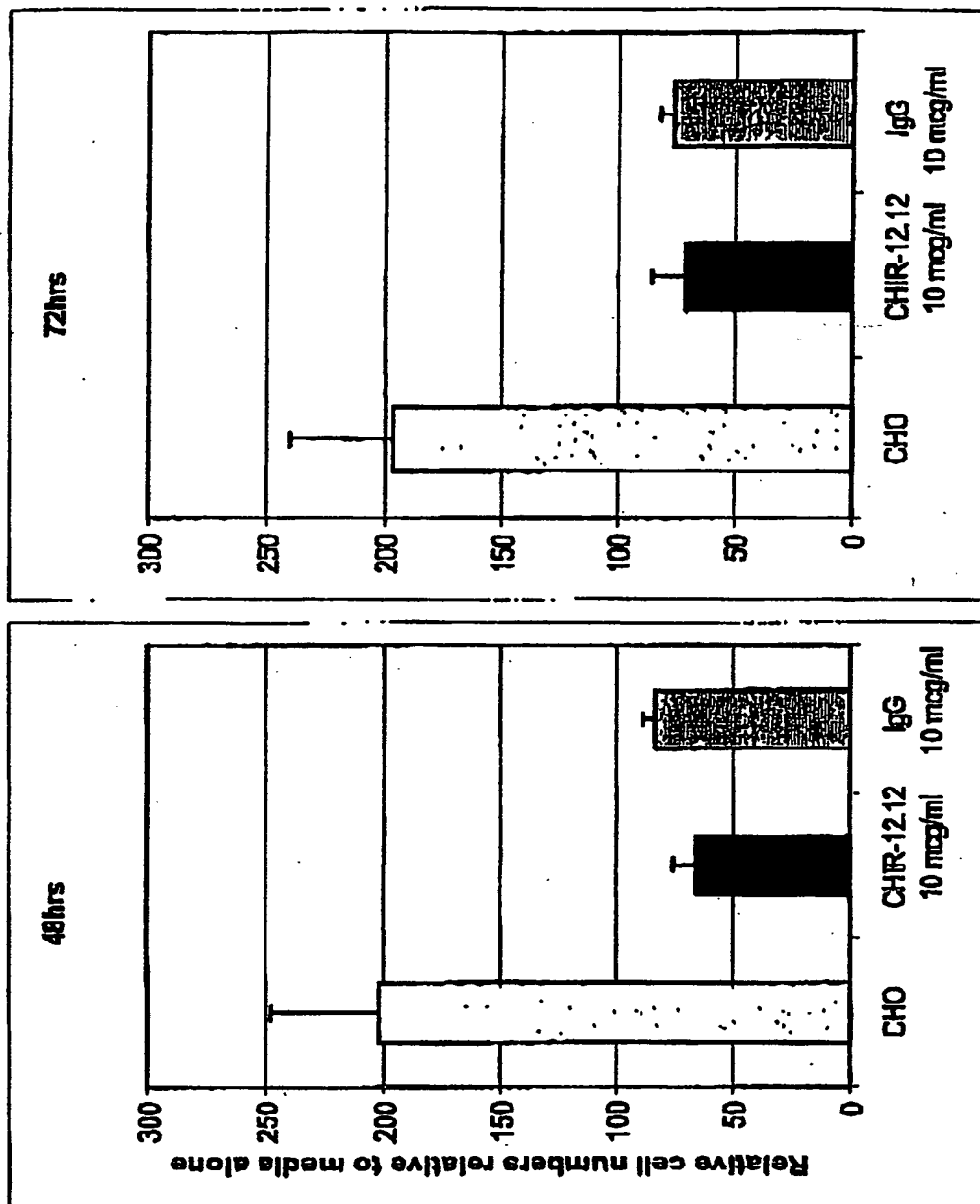


FIGURE 6B

FIGURE 6A

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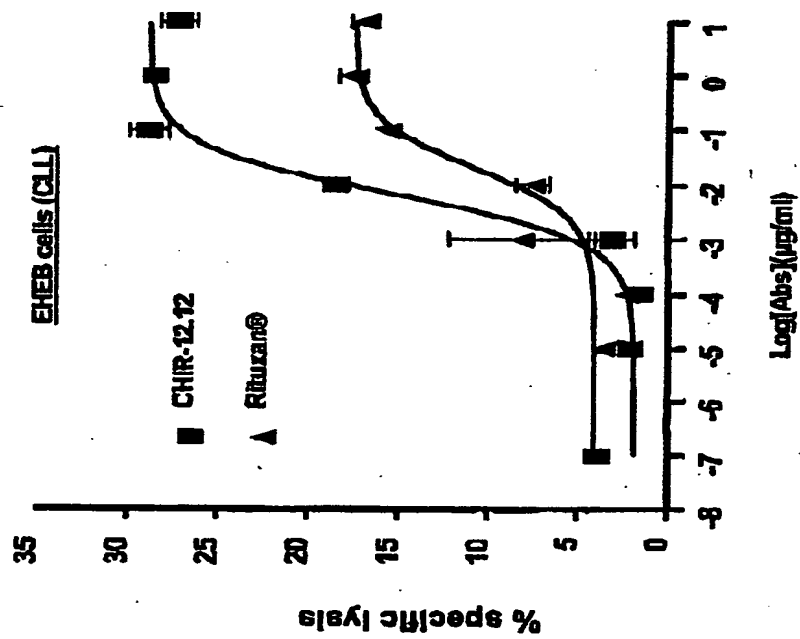
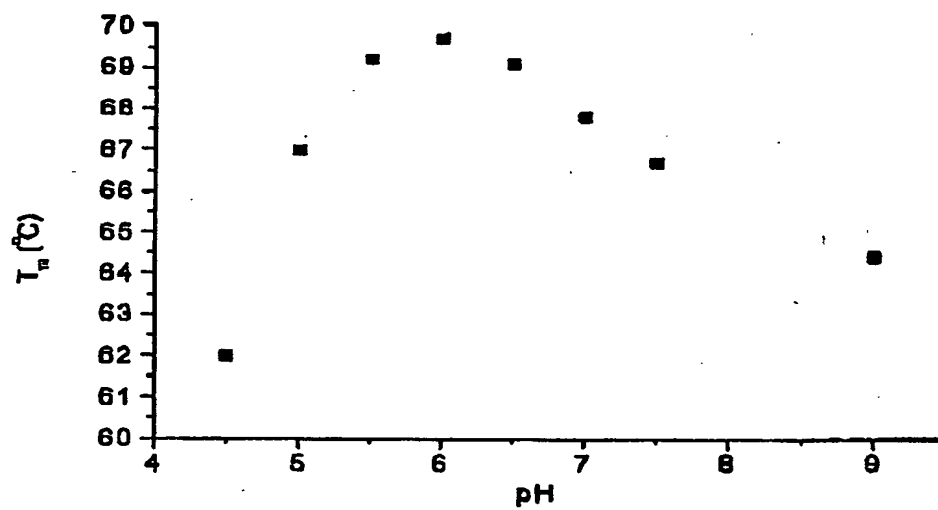


FIGURE 7

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FIGURE 8

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